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DIALOG(R)File 351:Derwent WPI
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Automatic control of condensed liq. - includes quick follow-up and
detection system for concn. control, and has tapered, hot heat exchange
plate which rotates

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 54123577	A	19790925			197944	B
JP 82012401	B	19820310			198213	

Priority Applications (No Type Date): JP 7831089 A 19780320

Abstract (Basic): JP 54123577 A

Automatically controlling the concentration of a condensed liq.
including medical and chemical drugs, and juices, comprises
establishing a severe concentration control and stable production
system, and assuring a quick follow-up and detection system for
controlling the concentration. A raw liquid is pretreated by heat
exchange with a hot compressed vapour in a closed vacuum environment,
where the pressure of the vapour is controlled, and then adiabatically
expanded in the same environment to be forcibly drained at ordinary
pressure. In this pretreatment, the liquid is contacted with a tapered
hot heat exchanging plate, which is rotating producing a centrifugal
force on the liquid so that a continuous diffusion film of liquid
flowing over the surface of the plate is formed. The hot vapour
pressure control system is connected to a mid-way of a drain pipe of
the concentrated liquid, thus forming a cascade control system.

Derwent Class: J04

International Patent Class (Additional): B01D-001/00; B01D-003/42;
C02F-001/04